

# Miropan-Elast

Silicone resin façade paint with nanotechnology featuring a particular cleanliness due to a photocatalytic effect. Flexible even at low temperatures. The well-approved Guard-technology protects the coating against early algae and fungal infestation.



### **Product characteristics**

Properties • With nano-technology

· Self-cleaning effect by photo-catalysis

Flexible at low temperatures and of low tension

· Preventive concrete protection (impermeable to CO2) confirmed by test certificate

Colour consistency class A according to BFS-Fact Sheet No. 26

· Crack bridging classification: classes A2 und A3 according to DIN EN 1062-7

Mineral surface

**ETICS** 

Active protection against algae and fungal infestation as confirmed by test certificate

Areas of application Exterior only

Substrates with fine cracks

Sound and elastic existing paint layers

Suitable as preventive concrete protection

## **Material description**

Suitable substrates in detail

Binder Silicone resin emulsion

Synthetic dispersion

Ingredients Photocatalytically active titanium dioxide

Fillers

Additives

**Density** V2 (ca. 0,4 m) kg/l

Water vapour permeability V2 (approx. 0,4 m)

Preventive concrete protection (sd-CO2-value)

> 50 m

Water absorption coefficient

(w-value)

W3 (approx. 0,04 kg/m<sup>2</sup> h<sup>0,5</sup>)

Maximum particle size Fine

Average consumption (short

Average of text)

Approx. 180 - 220 ml/m<sup>2</sup>

Average consumption Note: In order to obtain the assured product qualities two coats are necessary in exterior areas. It is advisable to

determine the exact consumption figure by producing a sample area.

Colour shade White

Base 1

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Base 3

Suitable tinting paints Ready-mixed at the factory. Please note that with tinted products the specified properties may change.

Can be tinted via the ALLFAcolor tinting machines. Please note that with tinted products the specified properties

may change.

Gloss level Matt

Class accord. to BFS fact

sheet no. 26

Group accord. to BFS fact

sheet no. 26

Groups 1 to 3 depending on colour shade

Storage Cool, but protected from frost

Α

Thinning Water

First and intermediate coat: 3%, finishing coat preferably unthinned.

### **Substrates**

Suitable substrates All usual mineral substrates (plasters/renders, concrete, masonry)

Adherent existing paint layers

Substrate conditions

The substrate must be clean, dry, frost-free, firm and sound as well as free from efflorescences, algae, moss, fungal

attack, sinter layers and release agents. Follow the building regulations (in Germany VOB, Part C, DIN 18363,

Section 3).

Substrate conditions Concrete

Remove forming oil, grease and wax by washing with surfactant. Remove any sintered layers mechanically. Check the absorbency of the concrete by wetting tests. In addition, the guidelines according to BFS Fact Sheet No.1 apply

for exterior coatings and the guidelines according to BFS Fact Sheet No. 8 for interior coatings.

Base renders (exterior):

Mineral base renders must be thoroughly cured and dry, because otherwise discolouration, in particular with tinted following coats, may occur. As a rule of thumb assume 1 day drying time per mm of layer thickness, but correspondingly longer at low temperatures and high humidity. Excessive temperatures and low humidity also lengthen the setting process. Treat replastered locations with fluosilicate. In addition, the guidelines according to BFS Fact Sheet

No. 9 apply.

Fibre-cement:

Products of fibre-cement have to be primed water based. On exterior surfaces solvent-based primers may be used as well. For constructions showing inaccessible and uncoated rear sides and edges do only use water vapour permeable coatings. Since 01.12.2012 uncoated fibre-cement panels containing asbestos must no longer be coated according to the Ordinance on Hazardous Substances (GefStoffV). For asbestos containing fibre-cement the corresponding directives (in Germany TRGS 519) referring to the handling with asbestos have to be observed.

## **Application**

**Application method** Application by brush, roller or spraying

Spraying data Spray pressure in bar: 200 (160 ) / spraying angle: 50° / nozzle size in inch: 0,021-0,023 / sieve size in mesh: 60 /

approx. thinning: 5%

Coating system Initial coatings

Priming coat with L-66 Tiefengrund, L-66 Tiefengrund mixed with Grundierfarbe P 1:1 or with Miropan-Grundiermit-

tel LEF. Intermediate coating thinned to max. 3%. Finishing coating preferably unthinned.

Initial coatings on concrete (exterior)

Priming coat with L-66 Tiefengrund, L-66 Tiefengrund mixed with Grundierfarbe P 1:1 or with Orbit Grund. Inter-

mediate and finishing coats preferably unthinned.

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#### Recoatings

**Priming coat** with L-66 Tiefengrund mixed with Grundierfarbe P 1:1 or with Miropan-Grundfarbe (with heavily absorbing existing paint layers also with Miropan-Grundiermittel LEF). **Intermediate coating** thinned to max. 3%. **Finishing coating** preferably unthinned.

Due to a great variety of our range and specific applications it is also possible to use other primers or coating systems. For this please contact our technical service.

The material can be applied by brush, roller or "low-mist" airless system. When painting, pay attention to spread the material liberally and homogeneously, in order to achive a coat thickness which is necessary for the durability.

Do not apply under a glaring sun, during strong wind or on warm substrates.

Check tinted paint for colour accuracy prior to the application. Objections regarding the colour shade cannot be accepted after the application.

The figures given for parameters are average values. Due to the use of natural raw materials in our products, the actual value determined on the individual supplied product may differ slightly without affecting its suitability. These date refer to the white respectively standard product. Tinting may cause deviations.

The protection against algae and fungal infestation of the coating is limited in time and inter alia depending on building construction and environmental conditions. A permanent absence of algae or funghi cannot be ensured. High alkaline influences may reduce the effect of the film preservation. A sufficient layer thickness (two coating layers) is necessary.

Among other things colour stability depends on the pigment. Organic (true colors) pigments are less colour stable than inorganic (earth colours) pigments. With alkaline substrates and silicate based products only use inorganic colours and pigments. Basically, materials with lower binder capacity should only be tinted in pastel shades. With matt, intensely tinted materials mechanical stress (scratching) may result in bright stripes. In Germany the BFS Fact-Sheet No. 26 applies.

Cracks that are due to structural dynamics cannot be permanently renovated with this product.

Do not mix with other products.

Repairs

Touching up surfaces may be more or less visible, even with using the original coating material. Traces are unavoidable according to BFS Fact Sheet No. 25. Whether a repair is considered as optically disturbing is depending on many parameters, like colour shade, gloss level, layer thickness, substrate, illumination etc. It is advisable to apply a test coating on inconspicuous places.

### Washing out with early Moisture Load

After the application, an early exposure to moisture (dew, fog, rain) may result in a washing out of additives or emulsifiers off the still not dry coating. This will be visible on the surface as transparent traces with a slightly glossy shine. These additives are water-soluble and disappear under the influeence of rain, once the coating is dry. If such surfaces must be directly coated, the traces should be washed off thoroughly.

### **Dark Colour Shades on ETICS**

Colour shades with a light reflectance value  $\geq$  20 are possible on ETICS without limitations. On request, darker shades are possible based on a specific TSR-formulation. Please observe the information regarding colour stability with brilliant and intensive hues.

### Colour Accuracy / Metamerism

The perception of colour shades is influenced by various parameters, such as light, gloss, angle, structure. Substrates of different degrees of irregularities may have different effects despite having been coated with the same material. Coating materials of the same hue but of different gloss levels also appear to be different. Various materials of the same colour shade that appear to be matching by daylight may show strong deviations in artificial light (metamerism effect). In case of increased requirements on matching colours of different building parts, materials and / or surfaces, the BFS Fact Sheet No. 25, section 4.2.2. can be taken into consideration.

## Protection against Algae and Funghi

For a prolonged protection we recommend to apply two coats. According to the state of technology, a durable protection against algae and fungal attack cannot be ensured.

Application

**Application hints** 

Compatibility

**Practical hints** 

Note

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### Sidelight

Unfavourable lighting conditions (sidelight) may occur for instance after the subsequent installation of lights. This fact must be known before works. Specific requirements on evenness and uniformity of the coating have to be previously agreed upon.

#### **Continuous Surfaces**

Before processing on continuous surfaces, especially with tinted material, check for colour consistency or mix the required quantity in advance. In order to avoid laps, apply wet-on-wet.

#### **Brilliant and intensive ColourShades**

Brilliant and intensive colour shades normally have a lower opacity due to the pigments used. The application of a first coat in a similar defined pastel tint (shown in online price reommendations, ALLFAcolor tinting machine) normally avoids having to apply a layer on top of the standard rule of coating. The stability of brilliant and intensive colour shades is influenced by various parameters such like type of binder, pigment, substrate, shading. A prognosis can only be issued approximately based on BFS Fact Sheet No. 26. On darker shades in combination with matt / silk matt interior paints mechanical stress (scratching, rubbing) may result in bright stripes (writing effect). To avoid this effect in exposed areas, always use specifically designed interior paints.

#### **Recoating of Joint Sealing Compounds**

Basically and if possible do not coat elastic joint sealing compounds. If however required, the coating is only possible provided that the sealing compound and coating material are suitable and compatible according to DIN 52452-4 (in Germany). The higher elasticity of the sealing compound may produce hairline cracks in the coating as well as discolouration of the paint. Due to the large variety of products available on the market, we recommend to produce test areas.

#### **Masking Works**

Always use UV-resistant adhesive tapes for exterior works. On completion of the coating, particularly with dispersion paints and / or higher layer thicknesses, immediately remove adhesive tapes, in order to avoid untidy contours.

### **Lime Efflorescence on Concrete**

Cavities, large pores and gravel pockets on concrete surfaces must be filled with an appropriate filling compound, e.g. Fassaden-Leichtspachtel, prior to the coating, as otherwise water might penetrate from the ourside and cause lime efflorescence on the surface.

### **New mineral Substrates**

New mineral substrates may only be coated after setting and drying, not earlier than after 14 days, better after 4 weeks. In unfavourable drying conditions, the waiting period can be prolonged.

## Horizontal surfaces

Exterior horizontal surfaces such as mural crowns, cornices, windowsills etc. must be professionally protected with appropriate covering material, e.g. from metal or stone, in order to prevent dirt stains and moisture damage of the coating.

**Temperature limit** 

Between + 5° C and + 30° C for substrate and ambient air during processing and drying.

**Drying time** 

At + 20° C for substrate and ambient air and 65% relative humidity (RH), recoatable after approx. 12 hours. Lower temperature or a higher humidity extend the drying time.

Tool cleaning

Immediately after use with water and soap

## Information

**Product code** 

BSW50 (M-SF01 F)

Hazard statements and safety advice

May cause an allergic skin reaction. If medical advice is needed, have product container or label at hand. Keep out of reach of children.Do not get in eyes, on skin, or on clothing. Wear protective gloves/ eye protection.If on skin: Wash with plenty of soap and water.**Contains**: 1,2-benzisothiazol-3(2H)-one, 2-methyl-2H-isothiazol-3-one, mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-2H-isothiazol-3-one (3:1).

According to European Regulations 528/2012 this product is defined as a "treated article" (not a biocidal product) and contains the following biocidal substance: Terbutryn (CAS-No. 886-50-0), zinc pyrithione (CAS-Nr. 13463-41-7), 2-Octyl-2H-isothiazol-3-one (CAS-Nr. 26530-20-1)

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Declaration of ingredients Polyacrylate dispersion, titanium dioxide, siliceous fillers, water, additives, film preservation, preservatives (methyl-

isothiazolinone, benzisothiazolinone)

Observe safety data sheets Further details: See Safety Material Data Sheet (MSDS)

Category VOC EU limit value for the VOC contents of this product:

(Category A/c) 40g/l (2010). This product contains max.

VOC content (in gram per

litre)

< 10 g/l

Waste disposal Only completely emptied containers should be given for recycling. Dispose containers with residues of liquid product

via waste collection point accepting old paints and enamels. Dispose dried hardened product residues as construc-

tion site/demolition/ municipal or domestic waste.

## **Container size**

Content		EAN code	Article no.
12,5 L	Weiß	4002822713058	559880
12,5 L	Basis 1	4002822713072	559882
5 L	Basis 1	4002822713089	559883
11,75 L	Basis 3	4002822713096	559884
4,7 L	Basis 3	4002822713102	559885

# System specific and system completing products

Miropan-Grundiermittel LEF

Miropan-Grundierfarbe

Miropan-Streichvlies

This data sheet cannot deal with all types of application arising in practice. Therefore, we cannot be held responsible for their content. These instructions do not release the purchaser / applicator from his responsibility of professionally examining the substrate and determining the suitability of the product in consideration of the project characteristics. In case of queries please request the technical assistance of ALLIGATOR FARBWERKE.

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